## Monitoring Data Record

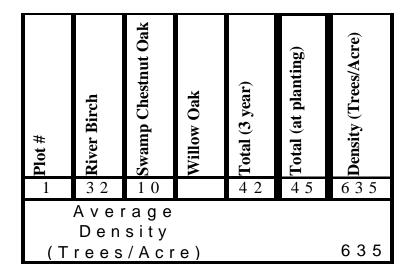
Project Title: <u>R-210A (Site 10)</u> COE Action ID: <u>1993-0-0570</u>	
Stream Name: Unnamed tributary to the Little River DWQ Number: 010404	
City, County and other Location Information: <u>US 1 (Vass Bypass) in Moore County</u>	
Sta. 51+70 to 52+20)	
Date Construction Completed: July 2003 Monitoring Year: (3) of 5	
Ecoregion: 8 digit HUC unit: 03030004	
USGS Quad Name and Coordinates:	
Rosgen Classification:	
Length of Project: 174' Urban or Rural: Rural Watershed Size:	
Monitoring DATA collected by: M. Green, J. Young Date: 6/19/07	
Applicant Information:	
Name: NCDOT Roadside Environmental Unit	
Address: 1425 Rock Quarry Rd. Raleigh, NC 27610	
Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us	
Consultant Information:	
Name:	
Address:	
Telephone Number: Email address:	
Project Status: Complete	
<u> </u>	
	_
Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) 2 3	
Monitoring Level 1 requires completion of Section 1, Section 2 and Section 3	
<b>Permit Conditions</b> : The permittee shall monitor the stream relocation site for a period of five	
years starting the year following construction. Monitoring data at the site should include the	
following: reference photos, plant survival, and channel stability. Data shall be collected each	
year for 5 years at the same time of year. No less than two bankfull events must be documented	
hrough the required 5-year monitoring period. If less than two bankfull events occur during the	
First 5 years, monitoring will continue until the second bankfull event is documented. The	
pankfull events must occur during separate monitoring years.	
Section 1. PHOTO REFERENCE SITES	
(Monitoring at all levels must complete this section)	
Total number of reference photo locations at this site: 3 reference points, 2 photos at each	
Dates reference photos have been taken at this site: 6/7/05, 6/22/06, 6/19/07	
Individual from whom additional photos can be obtained (name, address, phone):	
Other Information relative to site photo reference:	
If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.	

1

## Section 2. <u>PLANT SURVIVAL</u> Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):						
Estimated causes, and proposed/required remedial action:						
ADDITIONAL COMMENTS: This site was replanted in February 2006 due to low survival rates from the initial planting. The streambanks were live staked with buttonbush and silky dogwood live stakes. The floodplain was replanted with river birch, swamp chestnut oak, and willow oak. Other vegetation noted onsite consisted of black willow, tulip poplar, sweetgum, overcup oak, fescue, woolgrass, fennel, goldenrod, <i>Juncus</i> sp., pine, lespedeza, foxtail, and various grasses. Stem counts were conducted onsite. It was determined that 635 trees per acre are surviving as seen in the table below.						

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.



## Section 3. CHANNEL STABILITY

**Visual Inspection:** The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel</u>
stability/morphology will not be required. Include a discussion of any deviations from as-built
and an evaluation of the significance of these deviations and whether they are indicative of a
stabilizing or destabilizing situation.

The stream is stabilized for the 3rd year of monitoring. The log vanes are functioning properly and the streambanks
are stabilized.

Date	Station	Station	Station	Station	Station
Inspected	Number	Number	Number	Number	Number
Structure					
Type					
Is water					
piping					
through or					
around					
structure?					
Head cut or					
down cut					
present?					
Bank or scour					
erosion					
present?					
Other					
problems					
noted?					

**NOTE:** Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

^

## UT to Little River



Year 3 – June 2007